Table G.49. Constituents Categorized by Mobility (K_d) Classes

	Mobility Class 1 (1	$K_{d} = 0.0 \text{ mL/g}$
Constituent	K _d Estimate	Reference
Chromium	0.0	Strenge and Peterson (1989)
Fluoride	0.0	Strenge and Peterson (1989)
Nitrate	0.0	Strenge and Peterson (1989)
1,1,1-tetrachloroethane	0.09-0.13	Derived for K_{oc} using methods in Strenge and Peterson (1989). K_{oc} Properties from Mabey et al. 1982
Xylene	0.18-0.21	Derived for US EPA GEMS, VP-1,2, K _d methods
Toluene	0.14-0.26	Derived for K_{oc} using methods in Strenge and Peterson (1989). Properties from Mabey et al. 1982
Methylene chloride	0.005-0.007	Derived for K_{oc} using methods in Strenge and Peterson (1989). Properties from Mabey et al. 1982
	Mobility Class 2 ($K_d = 0.6 \text{mL/g}$
There are no constituents in		
	Mobility Class 3 (1	$K_{d} = 1.0 \text{ mL/g}$
Diesel fuel	2.7–3.95	Derived for K_{oc} using methods in Strenge and Peterson (1989). Physical properties are set to those for 2-methyl napththalene ^(a) – U.S. EPA GEMS, VP-1,2, K_d methods
Hydraulic fluid	8.4–12.4	Derived for K _{oc} using methods in Strenge and Peterson (1989). Physical properties are set to those of anthracene (Radding et al. 1976).
Oil	8.4–12.4	Derived for K_{oc} using methods in Strenge and Peterson (1989). Physical properties are set to those of anthracene (Radding et al. 1976).
	Mobility Class 4 (F	$X_{\rm d} = 10.0 \text{ mL/g}$
There are no constituents in	this mobility class.	
	Mobility Class 5 (F	$X_{\rm d} = 40.0 \text{ mL/g}$
Lead	234	Strenge and Peterson (1989)
Mercury	322	Strenge and Peterson (1989)
PCB	369–539	Derived for K_{oc} using methods in Strenge and Peterson (1989)
(a) unknown. PCB = polychlorinated biphenyl.		